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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/893,466 06/29/2001 Ajit V. Sathe 219.40241X00 5280 20457 7590 11/07/2003 EXAMINER ANTONELLI, TERRY, STOUT & KRAUS, LLP PATEL, ISHWARBHAI B 1300 NORTH SEVENTEENTH STREET ART UNIT PAPER NUMBER **SUITE 1800** ARLINGTON, VA 22209-9889

DATE MAILED: 11/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Advisory Action

Application No.	Applicant(s)	
09/893,466	SATHE, AJIT V.	
Examiner	Art Unit	
Ishwar (I. B.) Patel	2827	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a

final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which place condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed F Examination (RCE) in compliance with 37 CFR 1.114.	s the application in Request for Continued
PERIOD FOR REPLY [check either a) or b)]	
a) \(\backstyle \) The period for reply expires \(\begin{align*} \) months from the mailing date of the final rejection. \(\) 1) \(\begin{align*} \) The period for reply expires on: (1) the mailing date of this Advisory Action, or 1) the date set forth in the fin or event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of 10.00 (1). The state of the six of the s	the final rejection. REJECTION. See MPEP a) and the appropriate extension a fee. The appropriate extension set in the final Office action; or
 A Notice of Appeal was filed on Appellant's Brief must be filed within the period se 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the ap 	
2. The proposed amendment(s) will not be entered because:	
(a) they raise new issues that would require further consideration and/or search (see NO	TE below);
(b) they raise the issue of new matter (see Note below);	
(c) ☐ they are not deemed to place the application in better form for appeal by materially re issues for appeal; and/or	ducing or simplifying the
 (d) they present additional claims without canceling a corresponding number of finally re NOTE: 	jected claims.
3. Applicant's reply has overcome the following rejection(s):	
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate canceling the non-allowable claim(s).	, timely filed amendment
5. ☐ The a ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been consit the application in condition for allowance because: See Continuation Sheet. 6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issue raised by the Examiner in the final rejection.	•
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will explanation of how the new or amended claims would be rejected is provided below or appearance.	
The status of the claim(s) is (or will be) as follows:	
Claim(s) allowed:	
Claim(s) objected to:	
Claim(s) rejected: 14-18,20-23,27-31,33-36,46-49,51-56 and 58-61.	
Claim(s) withdrawn from consideration: 19, 24-26, 32, 37-39, 50, 57 and 62-64.	
8.☐ The proposed drawing correction filed on is a)☐ approved or b)☐ disapproved b	y the Examiner.
9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)	2
10.⊠ Other: <u>See Continuation Sheet</u>	MANUTER PRIMARY EXAMINER
•	GROUP 2 8 2 9

10/31/03

Continuation of 5, does NOT place the application in condition for allowance because: (a)Applicant's Argument: Lin not disclosing thin core / coreless substrate:

Lin discloses a substrate 14 and further discloses the suitable substrate can be of ceramic or PTFE (Teflon), or Polyamide tape, of or FR4 Lim column 5, line 55-60, Polyamide, Teflon and other polymer tapes are well known in the interconnectusty and timin substrate suitable for the specific requirement can be used. Even, the circuit board of Lin, if used with tape having metal pad on one side, will be considered as coreless substrate, used as "TAB"; lape automated bonding.

(b) Applicant's Argument: Secondary reference of Ho, US Patent No. 6,287,890, not disclosing thin film:

Ho discloses an interconnect substrate 12 with which the chip is connected, and the dielectric film, either film laminated or a liquid film deposited, is of the order of 10 to 50 micrometer, which is a thin film, Ho, column 7, line 21-34, figure 1. Further, how the interconnect substrate is made is irrelevant as the chip is mounted on the interconnect substrate 12 and not on the metal substrate 12.

(c)Applicant's Argument: Related art of Ho, US Patent No.6, 291,268, not disclosing thin film:

As explained above, the chip is mounted on the interconnect substrate, 12, wherein the dielectric layer thickness is between about 10 to 40 micrometer, see Ho, column 4, line 44-56.

- (d) Few other prior arts disclosing the thin tapes used in the interconnecting packaging industry are added here for further reference only not as prior arts.
- (1) Hashimoto discloses a tape carrier, with a substrate using polymide film of thickness 25 micrometer to 125 micrometer and further discloses that polyster film, glass epoxy film, polyamide film or a similar organic film may also be used, see Hashimoto column 6, line 49-55.
- (2) Fjelstad discloses a thin polymer layer of polyamide, poyetherimide or polyimide with a thickness of 50 micron; see Fjelstad, column 6 line 9-20.

Continuation of 10. Other: Examiner received the request for corrected advisory action filed by the applicant on June 19, 2003, today, along with other papers. The proposed amendment for the claims 53-64 will be entered for the purpose of Appeal